



Figure 2A

1 **MALTFALLVA LLVLSCKSSC SVGCDLPQTH SLGSRRTLML LAQMRKISLF SCLKDRHDFG**
61 **FPQEEFGNQF QKAETIPVLH EMIQQIFNLF STKDSSAAWD ETLLDKFYTE LYQQLNDLEA**
121 **CVIQGVGVTE TPLMKEDSIL AVRKYFQRIT LYLKEKKYSP CAWEVVRAEI MRSFSLSTNL**
181 **QESLRSKE**

Figure 2B

1 gagaacctgg agcctaaggt ttaggctcac ccatttcaac cagtctagca gcatctgcaa
61 catctacaat ggccttgacc tttgctttac tgggtggccct cctgggtgctc agctgcaagt
121 caagctgctc tgtgggctgt gatctgcctc aaaccacag cctgggtagc aggaggacct
181 tgatgctcct ggcacagatg aggagaatct ctcttttctc ctgcttgaag gacagacatg
241 actttggatt tccccaggag gagtttgga accagttcca aaaggctgaa accatccctg
301 tcctccatga gatgatccag cagatcttca atctcttcag cacaaaggac tcatctgctg
361 cttgggatga gaccctccta gacaaattct acactgaact ctaccagcag ctgaatgacc
421 tggaagcctg tgtgatacag ggggtggggg tgacagagac tcccctgatg aaggaggact
481 ccattctggc tgtgaggaaa tacttccaaa gaatcactct ctatctgaaa gagaagaaat
541 acagcccttg tgccctgggag gttgtcagag cagaaatcat gagatctttt tctttgtcaa
601 caaacttgca agaaagttaa agaagtaagg aatgaaaact ggttcaacat ggaaatgatt
661 ttcattgatt cgtatgccag ctcacctttt tatgatctgc catttcaaag actcatgttt
721 ctgctatgac catgacacga tttaaatctt ttcaaagtgt tttaggagta ttaatcaaca
781 ttgtattcag ctcttaaggc actagtcctt tacagaggac catgctgact gatccattat
841 ctattttaa atttttaaaa tattatttat ttaactattt ataaaacaac ttatttttgt
901 tcatattatg tcatgtgcac ctttgcacag tggttaatgt aataaaatgt gttctttgta
961 tttggtaaat ttattttgtg ttgttcattg aacttttgct atggaacttt tgtacttggt
1021 tattctttta aatgaaattc caagccta atgtgcaacct gattacagaa taactggtac
1081 acttcatttg tccatcaata ttatattcaa gatataagta aaaataaact ttctgtaaac
1141 ca

Figure 3A

1 MTNKCLLQIA LLLCFSTTAL SMSYNLLGFL QRSSNFQCQK LLWQLNGRLE YCLKDRMNF
61 IP EEIKQLQQ FQKEDAALTI YEMLQNIFAI FRQDSSSTGW NETIVENLLA NVYHQINHLK
121 TVLEEKLEKE DFTRGKLMSS LHLKRYYGRI LHYLKAKEYS HCAWTIVRVE ILRNFYFINR
181 LTGYLRN

Figure 3B

1 atgaccaaca agtgtctcct ccaaattgct ctctgttgt gcttctccac tacagctctt
61 tccatgagct acaacttgct tggattccta caaagaagca gcaattttca gtgtcagaag
121 ctctgtggc aattgaatgg gaggcttgaa tattgcctca aggacaggat gaactttgac
181 atccctgagg agattaagca gctgcagcag ttccagaagg aggacgccgc attgaccatc
241 tatgagatgc tccagaacat ctttgctatt ttcagacaag attcatctag cactggctgg
301 aatgagacta ttgttgagaa cctcctggct aatgtctatc atcagataaa ccatctgaag
361 acagtcctgg aagaaaaact ggagaaagaa gattttacca ggggaaaact catgagcagt
421 ctgcacctga aaagatatta tgggaggatt ctgcattacc tgaaggccaa ggagtacagt
481 cactgtgcct ggaccatagt cagagtggaa atcctaagga acttttactt cattaacaga
541 cttacagggt accctcgaaa ctgaagatct cctagcctgt ccctctggga ctggacaatt
601 gcttcaagca ttcttcaacc agcagatgct gtttaagtga ctgatggcta atgtactgca
661 aatgaaagga cactagaaga ttttgaaatt tttattaaat tatgagttat ttttatttat
721 ttaaatttta ttttgaaaa taaattattt ttggtgc

Figure 4A

1 **MKYTSYILAF QLCIVLGS LG** CYCQDPYVKE AENLK KYFNA GHSDVADNGT LFLGILKNWK
61 EESDRKIMQS QIVSFYFKLF KNFKDDQSIQ KSVETIKEDM NVKFFNSNKK KRDDFEKLTN
121 YSVTDLNVQR KAIHEL IQVM AELSPA AKTG KRKRSQMLFR GRRASQ

Figure 4B

1 tgaagatcag ctattagaag agaaagatca gttaagtcct ttggacctga tcagcttgat
61 acaagaacta ctgatttcaa cttctttggc ttaattctct cggaaacgat gaaatataca
121 agttatatct tggcttttca gctctgcac gttttgggtt ctcttggtcg ttactgccag
181 gacccatatg taaaagaagc agaaaacctt aagaaatatt ttaatgcagg tcattcagat
241 gtagcggata atggaactct tttcttaggc attttgaaga attggaaaga ggagagtgac
301 agaaaaataa tgcagagcca aattgtctcc ttttacttca aactttttaa aaactttaaa
361 gatgaccaga gcatccaaaa gagtgtggag accatcaagg aagacatgaa tgtcaagttt
421 ttcaatagca acaaaaagaa acgagatgac ttcgaaaagc tgactaatta ttcggttaact
481 gacttgaatg tccaacgcaa agcaatacat gaactcatcc aagtgatggc tgaactgtcg
541 ccagcagcta aaacagggaa gcgaaaaagg agtcagatgc tgtttcaagg tcgaagagca
601 tcccagtaat ggttgtcctg cctgcaatat ttgaatttta aatctaaatc tatttattaa
661 tattttaacat tatttatatg gggaatatat ttttagactc atcaatcaaa taagtattta
721 taatagcaac ttttgtgtaa tgaaaatgaa tatctattaa tatatgtatt atttataatt
781 cctatatact gtgactgtct cacttaatcc tttgttttct gactaattag gcaaggctat
841 gtgattacaa ggcttttatct caggggccaa ctaggcagcc aacctaagca agatcccatg
901 gggtgtgtgt ttattttact tgatgataca atgaacactt ataagtgaag tgatactatc
961 cagttactgc cggtttgaaa atatgcctgc aatctgagcc agtgctttta tggcatgtca
1021 gacagaactt gaatgtgtca ggtgaccctg atgaaaacat agcatctcag gagatttcat
1081 gcctggtgct tccaaatatt gttgacaact gtgactgtac ccaaattgaa agtaactcat
1141 ttgttaaaat tatcaatatac taatatatat gaataaagtg taagttcaca act